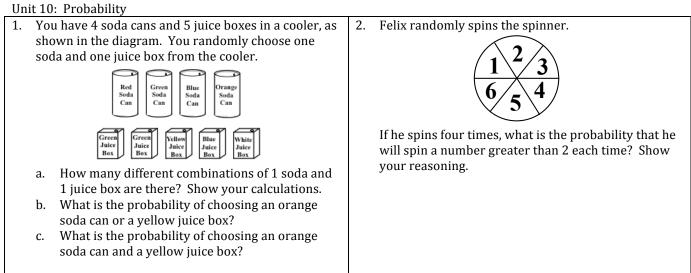
Name: ___

Final Exam Review – End of Unit 10



Unit 9: Volume

3. The volume of a cone is 314 cubic centimeters and the height of the cone is 3 centimeters. What is the radius of the cone to the nearest whole number?

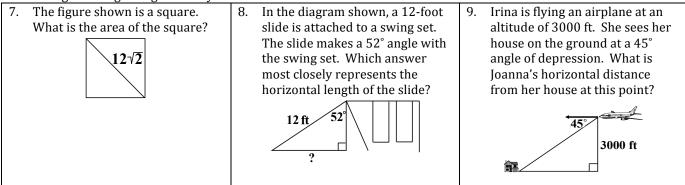
Unit 8: Circles

4. Which of the following statements are true?
a. A tangent will always intersect a circle in exactly two points.
b. A secant will always intersect a circle in exactly two points.
c. A diameter is not a chord.
d. A secant cannot extend outside of a circle.

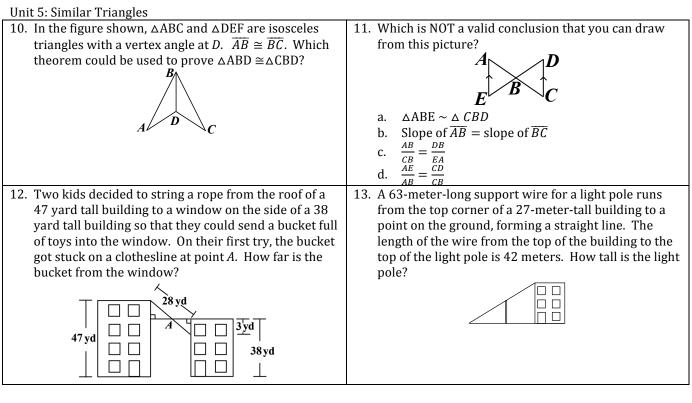
Unit 7: Quadrilaterals

- 6. Which of the following statements are NOT true?
 - a. The diagonals of a rectangle will always be congruent.
 - b. The diagonals of a rhombus will always be congruent.
 - c. The diagonals of parallelogram bisect each other.
 - d. The diagonals of a square will always be perpendicular.

Unit 6: Right Triangle Trigonometry



Name: _

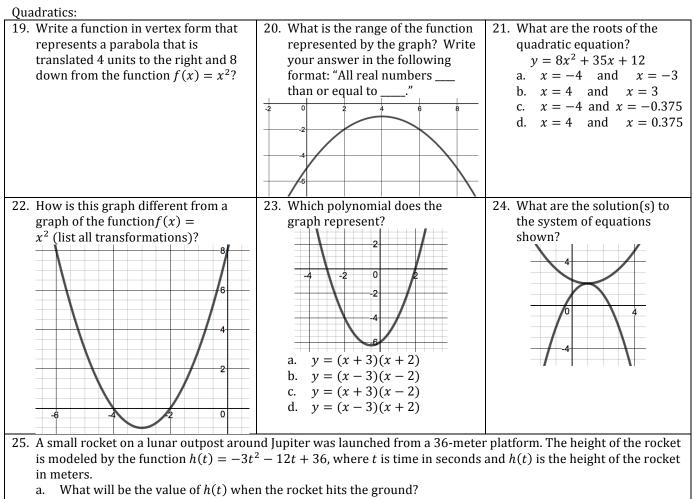


Geometry:

deometry.			
14. What is the name of the reason	15. Which of the following	16. Which of the following is NOT	
that states "On \triangle PQR, $m \angle PQR$ +	statements is NOT true?	true?	
$m \angle QRS + m \angle RSP = 180^{\circ}$."	a. The base of an isosceles	a. Two planes cannot be	
a. Addition Property of	triangle is bisected by the	parallel.	
Equality	altitude.	b. A line and a plane can have	
b. Triangle Sum Theorem	b. The three angles on an	an infinite number of	
c. Angle Addition Postulate	equilateral triangle will	intersection points.	
d. Definition of a bisector	always be congruent.	c. Two lines can have an	
	c. The vertex angle of an	infinite number of	
	isosceles triangle must be	intersection points.	
	congruent to the two base	d. A line and a plane can have	
	angles.	exactly one point of	
	d. The base angles of an	intersection.	
	isosceles triangle must be		
	congruent to each other.		

Inverses and Other Functions:

Inverses and other Functions.				
17. A kids train at the mall approaches the play area that	18. Given the function			
is 2 feet from the end of the track. The graph models	f(x) = 5x + 25, write the inverse function.			
the train traveling at a constant speed. Which				
equation best represents the graph?				
a. $f(x) = 5x $ b. $f(x) = x + 5 $ c. $f(x) = 5x + 2 $ d. $f(x) = 5x + 2$				



Name: _

b. Find the time when the rocket hits the ground, clearly showing how you used the equation.

Polynomials:

i olynoimais.			
26. Simplify the expression.	27. Simplify the expression.		28. What is the product of the
$(6x^2 - 5x) + (x^4 + 3x^2 + 10x)$	$(4x-7)^2$		polynomials?
			$x - 1$ and $-2x^2 - 6x + 9$
29. Under which operations are the set of irrational		30. In which sets does the number -8.9 NOT belong?	
numbers NOT closed?		a. Rational numbers	
a. Addition		b. Integers	
b. Subtraction		c. Whole Numbers	
c. Multiplication		d. Natural Numbers	
d. Division		e. Irrational	Numbers
		f. Real Numl	pers
		g. Imaginary	Numbers

Answers:					
1. a. 4 soda \cdot 5 juice = 20	b. $\frac{2}{5}$ c. $\frac{1}{20}$ 2. $\frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3}$	$=$ $\frac{16}{81}$	3. 10		
4. B	5. $100 - 25\pi$	6. B	7. 144		
8. 9.5 ft	9. 3000 ft	10. SSS	11. C		
12. 7 yd	13. 9 m	14. B	15. C		
16. A	17. D	18. $f^{-1}(x) = \frac{1}{5}x - 5$	19. $f(x) = (x - 4)^2 - 8$		
20. All real numbers les than or equal to –1. 21. C		22. Translated left	3 units and down 1 unit		
23. C	24. (1,2)	25. a. $h(t) = 0$ b. 2 sec.	26. $x^4 + 9x^2 + 5x$		
27. $16x^2 - 56x + 49$	28. $-2x^3 - 4x^2 + 15x - 9$	29. B, C & D	30. B, C, D, E & G		